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[Marker Primary Antibody]

Rabbit Anti-CD28/FITC Conjugated antibody

Catalog Number: SL8865R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CD28/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human CD28
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	ICC=1:50-200 IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat)
Subcellular Location:	The cell membrane
Background:	background: Involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival. SUBUNIT: Homodimer; disulfide-linked. Interacts with DUSP14. Binds to CD80/B7-1 and CD86/B7-2/B70. SUBCELLULAR LOCATION: Membrane; Single-pass type I membrane protein. TISSUE SPECIFICITY: Expressed in T-cells and plasma cells, but not in less mature B-cells. Human CD28 antigen is a 44 kDa disulfide linked homodimeric T cell specific surface glycoprotein. It is a cell adhesion molecule of the immunoglobulin superfamily which is constitutively expressed on most peripheral blood T lymphocytes (approximately 95% of CD4+ cells and 50% of CD8+ cells). Mature thymocytes exhibit higher levels of CD28 than the immature cells. Activation of T cells results in enhanced CD28 expression. T cell activation requires two combined signals provided by antigen presenting cells. The first is mediated via the T cell receptor following its interaction with antigenic

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	peptide MHC complexes, and the second is delivered by accessory or costimulating molecules through their counter receptors on T lymphocytes. CD28 bears structural homology to CTLA 4 which is expressed at very low levels on the surface of CD4+ and CD8+ peripheral blood cells only following activation. CD28 is the natural receptor for the B7/BB 1 ligand (CD80) a 55-60 kDa glycoprotein which is expressed on activated B lymphocytes, on dendritic cells and on interferon gamma treated monocytes. The binding of B7 1/BB 1 molecules to CD28 is involved in T lymphocyte activation and in the initiation and maintenance of chronic inflammation. **Function:** Possibly involved in T-cell activation. **Subunit:** Homodimer; disulfide-linked. Interacts with DUSP14. Binds to CD80/B7-1 and CD86/B7-2/B70. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Tissue Specificity:** Expressed in T-cells and plasma cells, but not in less mature B-cells. **Similarity:** Contains 1 Ig-like V-type (immunoglobulin-like) domain. **Database links:** **Entrez Gene:** 940 Human **Entrez Gene:** 12487 Mouse Omim: 186760 Human **SwissProt:** P10747 Human **SwissProt:** P31041 Mouse **SwissProt:** P42069 Rabbit **Unigene:** 591629 Human **Unigene:** 255003 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.